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TI - Manufacture of polyester-polyether block copolymer rubbers

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SO - Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT - Patent

LA - Japanese

IC - ICM C08G063/66

CC - 39-4 (Synthetic Elastomers and Natural Rubber)

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PN - JP63156824 A 19880629 JP 1986-305777 19861222 &lt;--

PR - JP 1986-305777 19861222

AB - The title rubbers are manufd. by transesterification of polyalkylene glycols (mol. wt. 400-30,000) with excess acid components in the presence of transesterification catalysts under an inert atm. at 180-240.degree., then treatment with diols at 170-230.degree. (mols of unreacted diols are equal or less than that of polyalkylene glycol), then polycondensation of the resulting prepolymers. Thus, 0.073 mol poly(tetramethylene) glycol (mol. wt. 3000) was treated with 1 mol di-Me terephthalate in the presence of Ti(OBu)<sub>4</sub> under a N atm. at 180-220.degree., then 1.3 mol 1,4-butanediol was added dropwise to the system for 60 min at 200.degree., then heated at 240.degree. and 1 torr for 180 min to give a block copolymer of (1:1) poly(butylene terephthalate) and polytetramethylene glycol showing modulus 800 kg/cm<sup>2</sup>, tensile strength 300 kg/cm<sup>2</sup>, and elongation at rupture 1000%.

ST - polyester polyether block copolymer rubber; polyalkylene glycol transesterification terephthalate

IT - Rubber, synthetic

RL: PROC (Process)  
(polyester-polyoxyalkylene, block, manuf. of, thermoplastic)

IT - 106159-00-6P, 1,4-Butanediol-poly(tetramethylene) glycol-terephthalic acid block copolymer 108188-72-3P, Ethylene glycol-polyethylene glycol-terephthalic acid block copolymer 115786-07-7P

RL: PREP (Preparation)

(rubber, manuf. of, thermoplastic, with good mech. properties)

IT - 107-21-1, Ethylene glycol, reactions 110-63-4, 1,4-Butanediol, reactions 25190-06-1, Poly(tetramethylene) glycol 25322-68-3, Polyethylene glycol

RL: RCT (Reactant); RACT (Reactant or reagent)  
(transesterification of, with di-Me terephthalate)

IT - 120-61-6, Dimethyl terephthalate

RL: RCT (Reactant); RACT (Reactant or reagent)  
(transesterification of, with polyalkylene glycols)

XP-002232850

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